[54] KEYBOARDS SWITCH ASSEMBLY WITH MULTILAYER PATTERN CONTACT MEANS							
[75]	Inventors:	Frank Joseph Glaister, Salisbury; Vincent Squitieri, Billerica; William J. Lynn, Groveland, all of Mass.					
[73]	Assignee:	Chomerics, Inc., Woburn, Mass.					
[22]	Filed:	Oct. 29, 1973					
[21]	[21] Appl. No.: 410,328						
[51] [58]	Int. Cl Field of Se						
[56] References Cited							
UNITED STATES PATENTS							
3,140, 3,594, 3,676, 3,699, 3,705, 3,721, 3,728, 3,743, 3,773,	684 7/19 615 7/19 294 10/19 276 12/19 778 3/19 509 4/19 797 7/19	71 Miller					

3,780,237	12/1973	Seeger, Jr. et al	200/5	Α
	OTHE	R PUBLICATIONS	* .	

IBM Technical Disclosure Bulletin, Kuntzleman, "Keyboard Transducers," Vol. 7, No. 12, p. 1170, May 1965.

IBM Technical Disclosure Bulletin, Sedaris et al., "Elastic Diaphragm Switch," Vol. 14, No. 3, p. 767, August 1971.

Primary Examiner—James R. Scott Attorney, Agent, or Firm—Dike, Bronstein, Roberts, Cushman & Pfund

[57] ABSTRACT

Keyboards for use in calculators, control equipment and the like, and which include a circuit board supporting electrical pathways, an insulator separator having openings registerable with portions of the pathways, a non-conductive elastomeric layer supporting a plurality of non-selfsupporting flexible conductive members or pathways and contactors thereon, said flexible conductive circuit contactors registerable with said openings whereby pressure applied to said elastomeric layer causes one or more of said contactors to extend through one or more openings to make electrical contact with portions of one or more circuit pathways supported by said board.

28 Claims, 8 Drawing Figures

